

## RECONDITIONING CLUTCH AND TRANSMISSION SYSTEM OF TOYOTA HIACE

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### ABSTRACT

The purpose of this final project is to identify the damage that occurs in the clutch and transmission, can improve the clutch and transmission, and to know the performance clutch and transmission on a Toyota Hiace after repair.

The process of reconditioning the clutch and transmission on a Toyota Hiace begins by identifying the damage to the car by way of inspection and measurement. From the investigation it was found that the condition of the clutch and transmission system is unable to work and function at all. So do check on the components of the master cylinder, release cylinder, clutch pedal, gear lever, linkage exists but in a rusty condition, oil drain hose couplings exist but in a damaged condition, oil clutch, transmission oil, the reservoir does not exist. Reconditioning is done by replacing and repairing components that are damaged or need replacement.

Identification of damage to the clutch and transmission system can be done and found damage to the various components, which include master cylinder, release cylinder, clutch pedal, gear lever, linkage, while the other components are still in good condition and just need a little improvement. Improvements also managed to do well, it is marked with the proper functioning of the overall performance of the clutch and transmission system of a Toyota Hiace. The mechanism of the clutch and transmission systems can also function well and to specification. To be able to find out the clutch and transmission system performance is to test the road, the road test results obtained on the function of the clutch coupling system that can be disconnected and connect the rotation of the engine to transfer power smoothly, with no vibration, no surge and no slip, while at transmission system is functioning mechanism of the system can shift smoothly, no noise, not heavy and the teeth do not jump or return neutral.